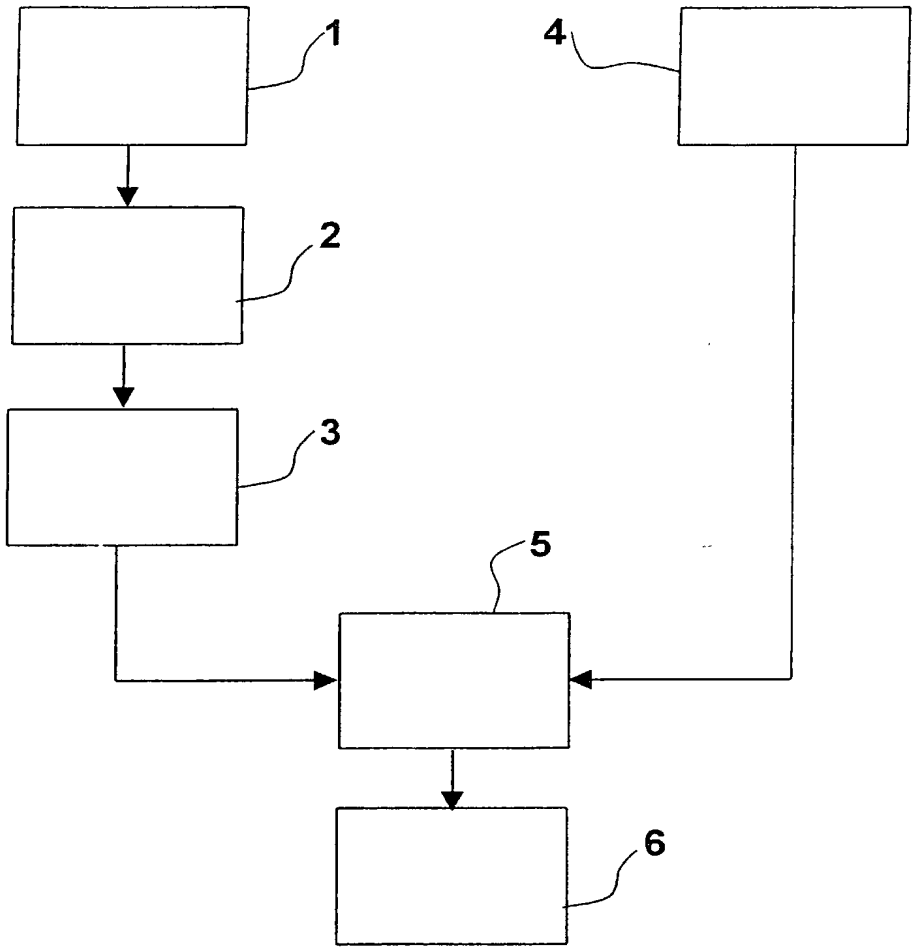

Figure1

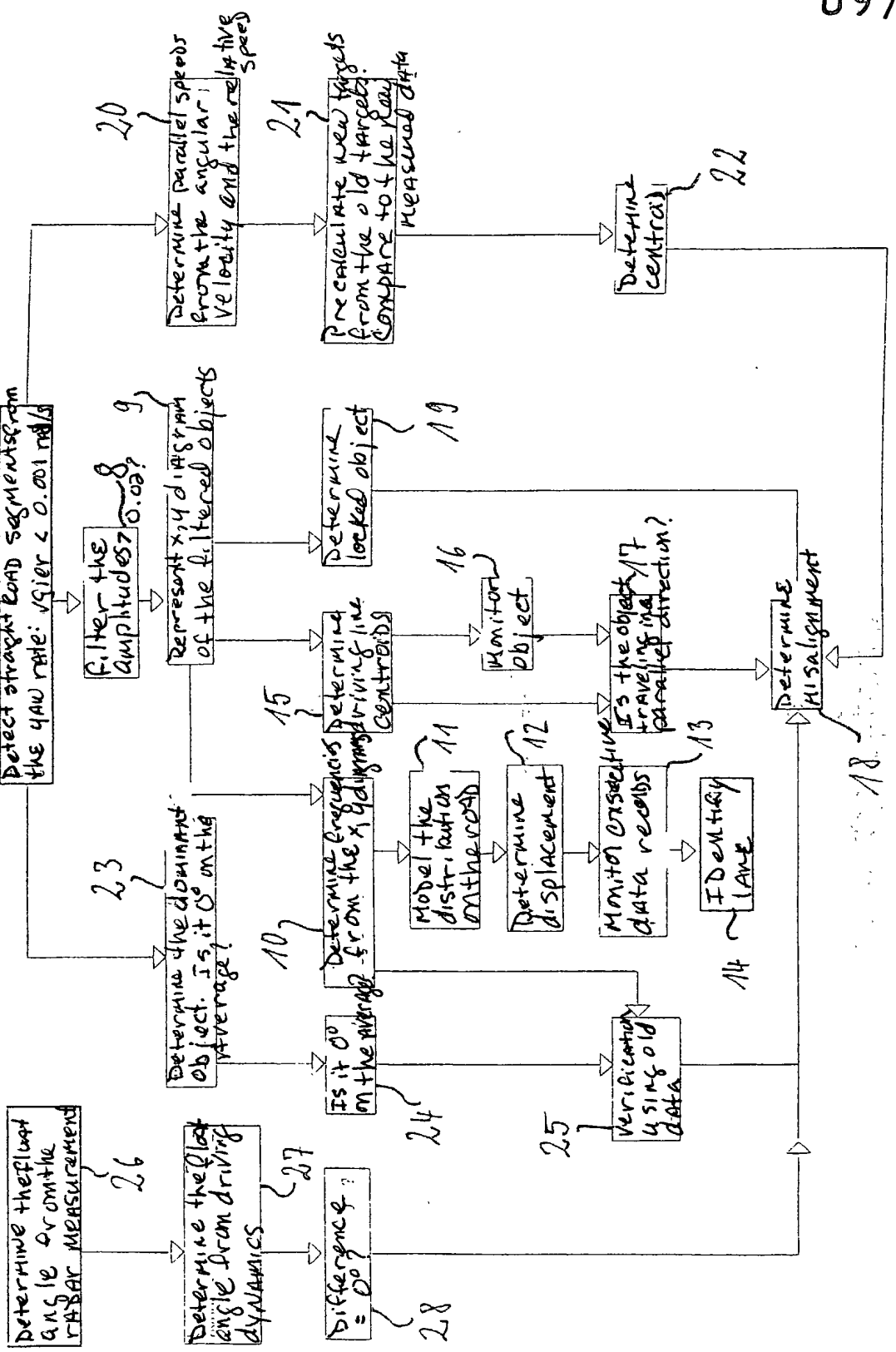
Detect straight road segments in the raw radar image: Vsier < 0.001 rad/s
17
Filter the amplitudes?
8
0.03?
Represent x,y,d in a system of the filtered objects
9
Determine parallel speeds from the angular velocity and the relative speed
20
Precalculate new targets from the old targets. Compare to the new measured data
21
Determine central
22
Determine locked object
19
Monitor object
16
Determine driving line centroids
15
Determine the dominant object. Is it 0° on the average?
23
Determine frequencies from the x,y diagram
10
Model the distribution on the road
11
Determine displacement
12
Monitor consecutive data records
Is the object travelling in the parallel direction?
17
13
Identify lane
14
Determine realignment
18
Is it 0° on the average?
24
Verification using old data
25
Determine the radar measurement angle from the dynamics
26
Determine the flat angle from driving dynamics
27
Difference = 0°?
28

Figure2